



BRUHATH BENGALURU MAHANAGARA PALIKE

BYATARAYANAPURA DIVISION, BENGALURU

EMB

1st & Final Bill

Name of Work: - Improvements to roads and drains at Muneshwara
Nagara, Near Doddamma devi temple, kattigenahalli village and
Surrounding Area in Ward No.05

Estimated Cost:- 88.00 Lakhs

Job Code: - 005-20-000079

Work Order: - BBMP / EE/ BTP/ W.O /176/2020-21,
Dated: 27-01-2021

AS No: - AS/EE(BTP)/14/2020-21, Dated: 10.06.2021

TS No: - TS/ CE(YNK) /05/2020-21, Dated: 11.06.2021

Name of the Contractor: - Sri.Umesh N

BRUHATH BANGALORE MAHANAGARAPALIKE

YELAHANKA ZONE

1ST AND FINAL BILL

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Name of Contractor : Sri. Umesh N

Item No	Description of Item	No	Length	Breadth	D1	D2	Avg Depth	Unit	Qty	Rate in Rs	Amount
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil involving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification										
	Qty Taken from Pre measurement page Item No. 1, page No.1to2							Cum	1137.70	197.22	224377.19
2	Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.										
	Qty Taken from Pre measurement page Item No. 2, Page No.2to4							Cum	273.31	5233.86	1430455.81
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm										
	For RCC Drain										
	For Bottom Raft										
	Muneshwara Nagara										
	4th Cross Road From 1st Main Road to Dead End										
	RHS	1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	16.70	1.00	0.15	0.15	0.15		2.51		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	7.20	0.95	0.15	0.15	0.15		1.03		
		1	30.00	1.00	0.15	0.20	0.18		5.25		
	LHS	1	20.00	0.95	0.15	0.15	0.15		2.85		
	1st Main Road From 4th cross to 1st cross										
	LHS	1	19.80	0.95	0.15	0.15	0.15		2.82		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	27.00	0.95	0.15	0.15	0.15		3.85		
	Cross road From 4th cross										
	RHS	1	18.60	0.95	0.15	0.15	0.15		2.61		
	Cross road-1 from 3rd Cross to Dead End										
	RHS	1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	18.30	0.95	0.15	0.15	0.15		2.61		
		1	3.70	0.95	0.15	0.20	0.18		0.27		
		1	1.80	1.00	0.15	0.15	0.15		0.27		
	Cross road-2 from 3rd Cross to Dead End										
	LHS	1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	2.00	0.95	0.15	0.15	0.15		0.29		
		1	18.40	1.00	0.15	0.15	0.15		2.76		
		1	24.80	0.95	0.15	0.15	0.15		3.53		
	RHS	1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	2.00	0.95	0.15	0.15	0.15		0.29		
		1	9.00	0.95	0.15	0.20	0.18		1.50		

Item No	Description of Item	No	Length	Breadth	D1	D2	Avg Depth	Unit	Qty	Rate in Rs	Amount
		1	9.40	0.95	0.15	0.15	0.15		1.34		
		1	9.10	1.00	0.15	0.15	0.15		1.37		
		1	15.30	0.95	0.15	0.15	0.15		2.18		
Doddamma Devi Temple Opposite Road											
From Main Road to Dead End											
LHS		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	0.95	0.15	0.20	0.18		4.99		
		1	13.80	0.95	0.15	0.15	0.15		1.97		
Doddamma Devi Temple Main Road From Ashwathkatte											
LHS		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	12.40	0.95	0.15	0.15	0.15		1.77		
Cross Road-1 From 2nd B Cross											
LHS		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	13.40	0.95	0.15	0.15	0.15		1.91		
RHS		1	30.00	0.95	0.15	0.15	0.15		4.55		
		1	30.00	0.95	0.15	0.20	0.18		4.50		
		1	10.00	1.00	0.15	0.15	0.15		4.50		
Cross Road-2 From 2nd B Cross											
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	8.00	0.95	0.15	0.15	0.15		1.14		
For RCC Culvert											
Culverts at 3rd cross road											
Culvert-1		1	4.35	1.60	0.20	0.20	0.20		1.39		
Culvert-2		1	4.90	1.60	0.20	0.20	0.20		1.57		
Culvert-3		1	4.90	1.60	0.20	0.20	0.20		1.57		
For RCC Wall											
Muneshwara Nagara											
4th Cross Road From 1st Main Road to Dead End											
RHS		2	30.00	0.15	0.50	0.60	0.55		4.95		
		2	30.00	0.15	0.60	0.45	0.53		4.73		
		2	30.00	0.15	0.45	0.55	0.50		4.50		
		2	30.00	0.15	0.55	0.55	0.55		4.95		
		2	16.70	0.15	0.55	0.55	0.55		2.76		
		2	30.00	0.15	0.55	0.55	0.55		4.95		
		2	7.20	0.15	0.55	0.45	0.50		1.08		
LHS		2	30.00	0.15	0.60	0.60	0.60		5.40		
		2	20.00	0.15	0.60	0.50	0.55		3.30		
1st Main Road From 4th cross to 1st cross											
LHS		2	19.80	0.15	0.50	0.55	0.53		3.12		
		2	30.00	0.15	0.70	0.75	0.73		6.53		
		2	27.00	0.15	0.90	0.60	0.75		6.08		
Cross road From 4th cross											
RHS		2	18.60	0.15	0.55	0.60	0.58		3.21		
Cross road-1 from 3rd Cross to Dead End											
RHS		2	30.00	0.15	0.55	0.60	0.58		5.18		
		2	30.00	0.15	0.60	0.60	0.60		5.40		
		2	18.30	0.15	0.60	0.60	0.60		3.89		
		2	3.70	0.15	0.60	0.50	0.55		0.61		
		2	1.80	0.15	0.50	0.50	0.50		0.27		
Cross road-2 from 3rd Cross to Dead End											
LHS		2	30.00	0.15	0.45	0.45	0.45		4.05		
		2	2.00	0.15	0.45	0.45	0.45		0.27		
		2	18.40	0.15	0.30	0.30	0.30		1.62		
		2	24.80	0.15	0.50	0.50	0.50		3.72		
RHS		2	30.00	0.15	0.50	0.45	0.48		4.28		
		2	2.00	0.15	0.45	0.45	0.45		0.27		
		2	9.00	0.15	0.25	0.25	0.25		0.68		
		2	9.40	0.15	0.45	0.50	0.48		1.34		
		2	9.10	0.15	0.20	0.30	0.25		0.68		
		2	15.30	0.15	0.45	0.45	0.45		2.07		

Item No	Description of Item	No	Length	Breadth	D1	D2	Avg Depth	Unit	Qty	Rate in Rs	Amount
	Doddamma Devi Temple Opposite Road										
	From Main Road to Dead End										
	LHS	2	30.00	0.15	0.60	0.60	0.60		5.40		
		2	30.00	0.15	0.60	0.45	0.53		4.73		
		2	13.80	0.15	0.45	0.50	0.48		1.97		
	Doddamma Devi Temple Main Road From Ashwathkotte										
	LHS	2	30.00	0.15	0.50	0.60	0.55		4.95		
		2	12.40	0.15	0.60	0.60	0.60		2.23		
	Cross Road-1 From 2nd B Cross										
	LHS	2	30.00	0.15	0.55	0.55	0.55		4.95		
		2	30.00	0.15	0.55	0.50	0.53		4.73		
		2	13.40	0.15	0.50	0.40	0.45		1.81		
	RHS	2	30.00	0.15	0.55	0.55	0.55		4.95		
		2	30.00	0.15	0.55	0.40	0.48		4.28		
		2	10.00	0.15	0.40	0.40	0.40		1.20		
	Cross Road-2 From 2nd B Cross										
	RHS	2	30.00	0.15	0.50	0.50	0.50		4.50		
		2	8.00	0.15	0.50	0.55	0.53		2.26		
	For RCC Culvert										
	Culverts at 3rd cross road										
	Culvert-1	2	4.35	0.30	0.45	0.45	0.45		1.32		
	Culvert-2	2	4.90	0.30	0.45	0.45	0.45				
	Culvert-3	2	4.90	0.30	0.45	0.45	0.45				
	Ramp For RCC Culvert										
	Culverts at 3rd cross road										
	Culvert-1	1	4.35	1.60	0.15	0.15	0.15		1.04		
		1	4.35	1.20	0.15	0.15	0.15		0.78		
	Culvert-2	1	4.90	2.00	0.15	0.20	0.18		1.72		
		1	4.90	1.80	0.15	0.15	0.15		1.32		
	Culvert-3	2	4.90	2.00	0.15	0.15	0.15		2.94		
	Present Qty								Cum	276.52	6829.95
										1888608.72	
4	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications										
	Qty Taken from Pre measurement page Item No.4, Page No.4 to 6								Tonne	18.19	68710.63
										1250166.28	
5	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of all materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,complete.(Data Rate)										
	Muneshwara Nagara										
	4th Cross Road From 1st Main Road to Dead End										
	RHS	1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	16.70	0.90					15.03		
		1	30.00	0.90					27.00		
		1	7.20	0.90					6.48		
	LHS	1	30.00	0.90					27.00		
		1	20.00	0.90					18.00		
	1st Main Road From 4th cross to 1st cross										
	LHS	1	19.80	0.90					17.82		
	Cross road From 4th cross										
	RHS	1	18.60	0.90					16.74		
	Cross road-1 from 3rd Cross to Dead End										
	RHS	1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	18.30	0.90					16.47		
		1	3.70	0.90					3.33		
		1	1.80	0.90					1.62		

Item No	Description of Item	No	Length	Breadth	D1	D2	Avg Depth	Unit	Qty	Rate in Rs	Amount
	Cross road-2 from 3rd Cross to Dead End										
	LHS	1	30.00	0.90					27.00		
		1	2.00	0.90					1.80		
		1	18.40	0.90					16.56		
		1	24.80	0.90					22.32		
	RHS	1	30.00	0.90					27.00		
		1	2.00	0.90					1.80		
		1	9.00	0.90					8.10		
		1	9.40	0.90					8.46		
		1	9.10	0.90					8.19		
		1	15.30	0.90					13.77		
	Doddamma Devi Temple Opposite Road										
	From Main Road to Dead End										
	LHS	1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	13.80	0.90					12.42		
	Doddamma Devi Temple Main Road From										
	LHS	1	30.00	0.90					27.00		
		1	12.40	0.90					11.16		
	Cross Road-1 From 2nd B Cross										
	LHS	1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	13.40	0.90					12.06		
	RHS	1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	10.00	0.90					9.00		
	Cross Road-2 From 2nd B Cross										
		1	30.00	0.90					27.00		
		1	8.00	0.90					7.20		
	Deductions										
	4th Cross Road From 1st Main Road to Dead End										
	RHS	-11	0.90	0.60					-5.94		
		-20	0.90	0.60					-10.80		
	Cross road-1 from 3rd	-10	0.90	0.60					-5.40		
		-14	0.90	0.60					-7.56		
	Cross Road-1 From 2nd B Cross	-14	0.90	0.60					-7.56		
Present Qty =									677.07		
Limited to =									Sqm	666.00	2212.00
											1473192
6	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to IS9103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour,HOM curing,form works,scaffolding and centering complete as per specifications and pointing for l joints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc,complete and as per the directions of Engineer in-Charge. (Data Rate)										
	For RCC Culverts										
	Culverts at 3rd cross road										
	Culvert-1	1	4.35	1.50					6.53		
	Culvert-2	1	4.90	1.50					7.35		
	Culvert-3	1	4.90	1.50					7.35		
	Missing Slabs At 4th cross	1	1.20	0.60					0.72		
	At 1st Main Road	1	1.20	0.60					0.72		
Present Qty =									Sqm	22.67	
Limited to =									Sqm	22.50	5147.10
											115809.75
7	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occurring during rolling including cost of all labour, HOM of machinery complete as per specifications.										

Item No	Description of Item	No	Length	B1	B2	Avg Breadth	Depth	Unit	Qty	Rate in Rs	Amount	
	Qty Taken from Pre measurement page Item No.7, Page No.6 to 7								Sqm	979.00	6.04	5913.16
8	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggretes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) as per the directions of Engineer In-Charge											
	For CC Road											
	4th cross road from 1st main Road											
		1	15.00	5.70	5.00	5.35	0.15		12.04			
		1	15.00	5.00	5.05	5.03	0.15		11.31			
		1	15.00	5.05	5.25	5.15	0.15		11.59			
		1	15.00	5.25	4.80	5.03	0.15		11.31			
		1	15.00	4.80	4.55	4.68	0.15		10.52			
		1	15.00	4.55	4.45	4.50	0.15		10.13			
		1	15.00	4.45	4.40	4.43	0.15		9.96			
		1	12.30	4.40	4.10	4.25	0.15		7.84			
		1	13.40	7.05	6.70	6.88	0.10		9.21			
		1	6.30	8.10	8.00	8.05	0.10		5.07			
		1	15.00	7.35	7.45	7.40	0.15		16.68			
		1	15.00	7.45	7.10	7.28	0.15		16.37			
		1	15.00	7.10	6.75	6.93	0.15		15.98			
		1	6.20	6.75	5.85	6.30	0.10		3.91			
	Deductions											
	Transform	-1	1.00	1.50	1.50	1.50	0.15		-0.23			
	Trees Area	-3	0.30	0.30	0.30	0.30	0.15		-0.04			
		-6	0.20	0.20	0.20	0.20	0.15		-0.04			
		-1	0.60	0.90	0.90	0.90	0.15		-0.08			
	Present Qty =								Cum	151.09		
	Limited Qty =								Cum	146.85	5070.32	744576.492
									Sub Total			7133099.41
									GST Charges 12%			855971.93
									Grand Total			7989071.33


 Assistant Engineer
 Ward No.05
 ಬೈರಾಗನೂರು ಉಪ ವಿಭಾಗ


 Assistant Executive Engineer
 Bytaraganur Sub-Division
 ಬೈರಾಗನೂರು ಉಪ ವಿಭಾಗ
 ದಿ.ವಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24